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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/521,165	09/07/2005	Lennart Hakansson	62646-P1695	9112
20736	7590	09/07/2006		
MANELLI DENISON & SELTER 2000 M STREET NW SUITE 700 WASHINGTON, DC 20036-3307			EXAMINER TOLAN, EDWARD THOMAS	
			ART UNIT	PAPER NUMBER
			3725	

DATE MAILED: 09/07/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/521,165

Applicant(s)

HAKANSSON ET AL.

Examiner

Edward Tolan

Art Unit

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 11-32 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 11-32 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 14 January 2005 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
- 1) ☒ Certified copies of the priority documents have been received.
 - 2) ☐ Certified copies of the priority documents have been received in Application No. ____.
 - 3) ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. ____. |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date ____. | 6) <input type="checkbox"/> Other: ____. |

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 11,12 and 16 are rejected under 35 U.S.C. 102(b) as being anticipated by Nishida (5,042,283). Nishida discloses a method of manufacturing a tubular cup-shaped shell by providing a body of material (6) having a through hole and placing the body in a counterdie (4) with a first end surface of the body facing a bottom (4c) of the counterdie with an inner wall (4b) of the counterdie enclosing the body. A mandrel (5) has a guide pin that interacts with the through hole as the body is cold formed by plastic deformation.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 13-15 and 17-30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nishida (5,042,283) in view of Nakahara et al. (4,321,816). Nishida does not disclose dimensions of the shell. Nakahara teaches that it is known (column 5, lines 6-35, column 6, lines 20-37 and column 6, lines 57-68) that it is known to design

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an impact extrusion punch and die set to produce a shell with desired wall thickness and shoulder dimensions. In column 5, line 47 Nakahara discloses that a conventional shell has a wall thickness variation of 0.5mm, between 1mm and 1.5mm at the shoulder and a wall thickness variation of 20-70 microns, 0.05mm at the wall thickness. It would have been obvious to one skilled in the art at the time of invention to provide the tooling and blank of Nishida with dimensional parameters as taught by Nakahara in order to produce shells with consistent dimensions including wall thickness.

Claims 31 and 32 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nishida (5,042,283) in view of Nakahara et al. (4,200,051). Nishida discloses a method of manufacturing a tubular cup-shaped shell by providing a body of material (6) having a through hole and placing the body in a counterdie (4) with a first end surface of the body facing a bottom (4c) of the counterdie with an inner wall (4b) of the counterdie enclosing the body. A mandrel (5) has a guide pin that interacts with the through hole as the body is cold formed by plastic deformation. Nishida does not disclose drawing the shell. Nakahara teaches (column 6, lines 4-19) that it is known to draw a shell that has been extruded by cold deformation pressing. It would have been obvious to one skilled in the art at the time of invention to draw the shell of Nishida as taught by Nakahara in order to draw the shell wall to a final shape or thickness. Regarding claim 32, in Example 1, Nakahara teaches extruding a body of known dimensions until a desired wall thickness has been reached.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication should be directed to Ed Tolan whose telephone number is 571-272-4525. FAX communications should be sent to 571-273-8300.

EDTOLAN
PRIMARY EXAMINER

A handwritten signature in black ink, appearing to read 'Ed Tolan', is written below the printed name and title.